

## **Abstract of the Disclosure**

Pervasive output capability is provided so that an information apparatus can pervasively output digital content to an output device regardless of the processing power, display screen size and memory space of the information apparatus. This allows small mobile devices with limited display, processing power, and memory to be able to output a digital document (e.g., PDF, HTML, PowerPoint etc) in its full original richness, without resorting to downsizing, truncating, reducing, clipping or otherwise altering the original document. A data output system for rendering at an output device output content managed from an information apparatus may include means for obtaining a document object relating to the output content managed from the information apparatus and means for obtaining an output device object with one or more attributes corresponding to the output device. The document object and the output device object may be provided to a server application that is operated on a server that is distinct from the information apparatus and the output device and that generates output data employing at least partly the document object and the output device object. The output data is then provided to the output device for rendering the output content.